

REMARKS

Claims 1-15 are pending in the present application. In the Office Action of march 24, 2003, the Examiner made the following disposition:

- A.) Objected to the drawings.
- B.) Objected to the specification.
- C.) Rejected claims 1-15 under 35 U.S.C. §102(b) as being anticipated by *Kabushiki*.

Applicants respectfully traverse the rejection and address the Examiner's disposition as follows:

A.) Objection to the drawings:

The specification has been amended to correct typographical errors to overcome the objection. Specifically, at page 12, line 5, the item number "12" has been changed to --23-- as shown in FIG. 3. At page 15, line 19, the item number "63" has been changed to --62-- as shown in FIG. 7. Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "**VERSION WITH MARKING TO SHOW CHANGES MADE**".

Applicants have also corrected other informalities in the specification to correspond to item numbers in the drawings.

Applicants respectfully submit the objection has been overcome and request that it be withdrawn.

B.) Objection to the specification:

The specification has been amended as per the Examiner's request to overcome the objection. Specifically, minor informalities have been corrected at various location in the specification. Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment.

Applicants respectfully submit the objection has been overcome and request that it be withdrawn.

C.) Rejection of claims 1-15 under 35 U.S.C. §102(b) as being anticipated by *Kabushiki*:

Applicants respectfully disagree with the rejection.

Applicants' independent claims 1, 5, 6, 7, 11, and 12 have each been amended to include the subject matter relating to a GUI synthesized with video information. Claims 4 and 10 have been cancelled.

Applicants' independent claims 1, 5, 6, 7, 11, and 12, each as amended, and claims 13, 14 and 15 each claim outputting or receiving a GUI synthesized with received video information. Referring to Applicants' Figure 12B for illustrative purposes, received video information 71 is synthesized with a GUI (graphical user interface surrounding the video information).

This is clearly unlike *Kabushiki*, which fails to disclose or even suggest synthesizing a GUI with received video information. Referring to *Kabushiki* Figure 31, *Kabushiki* discloses an apparatus for providing video data from two different video servers 3121 and 3122 to a video terminal 3106 without having to change a flow ID. As clearly described in *Kabushiki* with reference to Figure 31, a guide server 3102 controls delivery of the video data from each video server 3121 and 3122. As stated in *Kabushiki*, "the guide server 3102 notifies some specific number to either one of the video servers 3121 and 3122 for carrying out the delivery, as a control of the video data delivery with respect to the same video terminal 3106 at the same connection time, in a sense of 'use this number as the flow ID (or its part)'." The video servers 3121 and 3122 transmit video data via a cell router switch 3103 to the video terminal 3106.

Therefore, *Kabushiki*'s video data is transmitted from the video servers 3121 and 3122 to the video terminal 3016 without being processed by (or even passing through) the guide server 3102. The guide server 3102 merely provides flow ID information to the video servers 3121 and 3122 to control their delivery. In other words, the guide server 3102 tells the video servers 3121 and 3122 where to send their video data, but the guide server 3102 has nothing to do with the video data itself.

Unlike Applicants' independent claims, nowhere does *Kabushiki* disclose or even suggest that its guide server receives the video data from its video servers. Further, since *Kabushiki* fails to even teach its guide server receiving video data from its video servers, *Kabushiki* could not disclose or suggest synthesizing a GUI with received video data. Therefore, *Kabushiki* fails to disclose or even suggest Applicants' claims 1, 5, 6, 7, 11, 12, 13, 14 and 15.

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Claims 2-3, 8-9 depend directly or indirectly from claims 1 or 7 and are therefore allowable for at least the same reasons that claims 1 and 7 are allowable.

Applicants respectfully submit the rejection has been overcome and request that it be withdrawn.

Conclusion

In view of the foregoing discussion and analysis, Applicant respectfully submits that claims 1-3, 5-9 and 11-15, are in a condition for allowance, which action is earnestly solicited.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Specification:

Please replace the paragraph beginning at page 1, line 17, with the following replacement paragraph:

--Recently, not only character information, but also high-definition still images, moving images, voice and sound, which are large items of information, are transmitted [in] via the Internet. For example, the so-called "Inter-net TV telephone" has been realized, in which voice and images are communicated in real time.--

Please replace the paragraph beginning at page 4, line 4, with the following replacement paragraph:

--The architecture of the Internet was devised about 20 years ago. Thus, the ATM (Asynchronous Transfer Mode) technique, i.e., a high-speed data communication technique developed through [the] a recent technical advance, [cannot be] could not conventionally be efficiently used in Internet communication--

Please replace the paragraph beginning at page 2, line 9, with the following replacement paragraph:

--This invention has been made in view of the foregoing. It is the object of the invention [is] to inhibit loss of information in the course of communication and to accomplish high-speed information communication by the use of the ATM technique.--

Please replace the paragraph beginning at page 3, line 5, with the following replacement paragraph:

--In the present invention, information is transmitted in the band of [the] a second reserved network [reserved], with reference to a mapping table, thereby to inhibit loss of the information while the information is being transmitted and also to achieve high-speed transmission of the information by the use of the ATM technique.--

Please replace the paragraph beginning at page 3, line 9, with the following replacement paragraph:

--Further, information is transmitted in the band of the reserved network, with reference to the mapping table, whereby loss of the information can be inhibited while the information is being transmitted, and high-speed communication of the information can be performed by the use of the ATM technique. Still further, the time data contained in a packet is altered in accordance with the time [lug] lag between the first and second clock signals, thereby [make] making it possible for different [network] networks, which use asynchronous clock signals, to receive data from one another in real time.--

Please replace the paragraph beginning at page 10, line 13, with the following replacement paragraph:

--The high-speed resource-[]reserving protocol technique is to reserve at high speed a band (communication resource) for the line before data is transferred, thereby to transmit data with being interfered with by other [communication] communications. This technique makes effective use of the quality-assurance network technology for the connection base, which characterizes the asynchronous transfer mode (ATM). With this technique it is possible to send data reliably to the transfer destination, because the data is transmitted after the route to the destination is determined. In the high-speed resource-reserving protocol technique, the band is reserved for the required time only, and the reservation is canceled once the data has been transferred. Hence, the band can be used efficiently.--

Please replace the paragraph beginning at page 12, line 2, with the following replacement paragraph:

--A translator 10-1 and a controller 11-1 constitute a home router 4-1. The translator 10-1 may be a general-purpose personal computer. As shown in FIG. 3, the translator 10-1 is connected to the controller 11-1 by a 10-base T cable 16-1 that is connected to an [Ether] Ethernet cards [card 12] 23 and 34. In response to a command supplied from the controller 11-1, the translator 10-1 transmits data to, or receives data from, the first network 1 through an optical fiber cable [1501] 15-1 that is connected to an ATM card 22. The translator 10-1 converts IP

(Internet Protocol) data supplied from the first network 1, to DV data. The DV data is output to the DV terminal 25 of a DVCR 7-1 through a specific channel of an IEEE1394 bus 5-1-1. The translator 10-1 receives DV data (video data and audio data) input from a DV camera 8-1 via a specific channel of an IEEE1394 bus 5-1-2 connected to an IEEE1394 card 21, converts the DV data to IP data, and transmits the IP data to the first network 1. Further, the translator 10-1 controls the operation of the DVCR 7-1 and DV camera 8-1 by way of the IEEE1394 buses 5-1-1 and 5-1-2.--

Please replace the paragraph beginning at page 15, line 14, with the following replacement paragraph:

--The DV packets (A in FIG. 7) stored in a buffer 61 are put together, under the control of the CPU 41, making groups each consisting of one packet or more packets as is illustrated at B in FIG. 7. A sequential number is added to the head of each packet group. Further, as is shown at C in FIG. 7, an IP header indicating the address of the destination (the other end of the line) is added to each packet group having the sequential number at the head, on the basis of the mapping table [63] 62 stored in the memory 50 and designed for transmitting packets. The packet group is then converted to an IP packet.--

Please replace the paragraph beginning at page 16, line 13, with the following replacement paragraph:

--The IP packet transmitted from the other end of the line through the first network is stored into the network input cue 64 of the [AMT] ATM interface 45. The IP packet stored in the network input cue 64 is transferred to the buffer 61 under the control of the CPU 41.--

In the Claims:

Please amend claims 1, 5, 6, 7, 11, and 12 as follows:

1. (Amended) An information transmitting apparatus for use in a first network, designed to transmit information via a second network to an information receiving apparatus incorporated in a third network, characterized by comprising band-receiving means for reserving a band for the second network; generating means for generating a mapping table showing the address of the information receiving apparatus; [and] transmitting means for transmitting information by referring to the mapping table generated by the generating means; receiving means for receiving video information input; and GUI-generating means for generating a GUI, synthesizing the GUI with the video information received by the receiving means and outputting a combination of the GUI and the video information.

5. (Amended) A method of transmitting information in an apparatus for use in a first network, designed to transmit information via a second network to an information receiving apparatus incorporated in a third network, characterized by comprising: a band-reserving step of reserving a band for the second network; a generating step of generating a mapping table showing the address of the information-receiving apparatus[,]; [and] a transmitting step of transmitting information by referring to the mapping table generated in the generating step; a receiving step of receiving video information input; and a GUI-generating step of generating a GUI, synthesizing the GUI with the received video information, and outputting a combination of the GUI and the video information.

6. (Amended) A recording medium recording a program for use in a first network, designed to perform a process of transmitting information via a second network to an information receiving apparatus incorporated in a third network, characterized in that said program can be executed by a computer and includes: a band-reserving step of reserving a band for the second network; a generating step of generating a mapping table showing the address of the information-receiving apparatus[, and]; a transmitting step of transmitting information by referring to the mapping table generated in the generating step; a receiving step of receiving video information input; and a GUI-generating step of generating a GUI, synthesizing the GUI with the received video information, outputting a combination of the GUI and the video information.

7. (Amended) An information receiving apparatus for use in a first network, designed to receive information via a second network from an information transmitting apparatus incorporated in a third network, characterized by comprising generating means for generating a mapping table showing the address of the information transmitting apparatus; and transfer means for transferring information by referring to the mapping table generated by the generating means, the information comprising a GUI generated by the information transmitting apparatus synthesized with a video information received by the information transmitting apparatus.

11. (Amended) A method of receiving information in an information receiving apparatus used in a first network, designed to receive information via a second network from an information transmitting apparatus incorporated in a third network, characterized by comprising: a generating step of generating a mapping table showing the address of the information transmitting apparatus; and a step of transferring information by referring to the mapping table generated in the generating step, the information comprising a GUI generated by the information transmitting apparatus synthesized with a video information received by the information transmitting apparatus.

12. (Amended) A recording medium recording a program for use in a first network, designed to perform a process of receiving information via a second network from an information transmitting apparatus incorporated in a third network, characterized in that said program can be executed by a computer and includes: a generating step of generating a mapping table showing the address of the information transmitting apparatus; and a step of transferring information by referring to the mapping table generated in the generating step, the information comprising a GUI generated by the information transmitting apparatus synthesized with a video information received by the information transmitting apparatus.

Please cancel claims 4 and 10.



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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited as First Class Mail in an envelope addressed to Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450 on June 6, 2003.

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